

Marion County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/27/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 22 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Marion County economy.¹

These 22 sectors have a total direct output of approximately **\$502.0 million** and support **1,665 jobs** in Marion County. Running the model for all 22 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Marion County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	1665.2	24.26%	\$141,959,409	34.08%	\$502,030,953
Indirect Effect	295.6	4.31%	\$24,196,900	5.81%	\$45,839,184
Induced Effect	359.0	5.23%	\$19,673,247	4.72%	\$39,070,691
Total Effect	2319.8	33.80%	\$185,829,556	44.61%	\$586,940,828

As shown in the above table, agriculture, food, and food processing sectors support **2,320 jobs**, or **33.80%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 22 agriculture, food, and food processing sectors is approximately **\$185.8 million**, or **44.61% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **832 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Marion County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	831.7	\$107,182,192
Support activities for agriculture and forestry	202.7	\$24,032,799
All other food manufacturing	183.3	\$69,901,436
Grain farming	110.1	\$44,495,952
Fluid milk manufacturing	104.8	\$81,438,999
Other animal food manufacturing	90.6	\$125,173,716
Wholesale trade	79.0	\$16,516,041
Farm machinery and equipment manufacturing	37.0	\$14,016,017
All other crop farming	35.7	\$3,076,812
Truck transportation	33.2	\$5,879,308

The other animal food manufacturing sector directly contributes approximately **\$125.2 million** to the Marion County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Other animal food manufacturing	90.6	\$125,173,716
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	831.7	\$107,182,192
Fluid milk manufacturing	104.8	\$81,438,999
All other food manufacturing	183.3	\$69,901,436
Grain farming	110.1	\$44,495,952
Support activities for agriculture and forestry	202.7	\$24,032,799
Oilseed farming	15.3	\$17,700,691
Wholesale trade	79.0	\$16,516,041
Farm machinery and equipment manufacturing	37.0	\$14,016,017
Owner-occupied dwellings	0.0	\$9,691,183

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Marion County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	15.3	\$17,700,691.22
Grain farming	110.1	\$44,495,952.61
Vegetable and melon farming	1.0	\$240,024.72
Greenhouse, nursery, and floriculture production	0.5	\$79,656.90
Cotton farming	1.7	\$457,945.79
All other crop farming	35.7	\$3,076,811.79
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	831.7	\$107,182,189.94
Dairy cattle and milk production	12.5	\$5,827,895.16
Poultry and egg production	0.7	\$673,472.17
Animal production, except cattle and poultry and eggs	20.0	\$2,682,840.11
Commercial logging	2.3	\$59,975.52
Commercial hunting and trapping	2.2	\$42,999.25
Support activities for agriculture and forestry	202.7	\$24,032,798.77
Other animal food manufacturing	90.6	\$125,173,713.68
Fluid milk manufacturing	104.8	\$81,439,002.99
Animal, except poultry, slaughtering	4.8	\$3,534,568.79
Bread and bakery product, except frozen, manufacturing	4.3	\$467,268.29
Frozen cakes and other pastries manufacturing	0.2	\$35,838.19
All other food manufacturing	183.3	\$69,901,435.85
Farm machinery and equipment manufacturing	37.0	\$14,016,016.96
All other industrial machinery manufacturing	3.6	\$909,854.23
Veterinary services	42.6	\$4,064,526.56

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Marion County, the retail sector was omitted.